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Editorial: Enhancing Adaptability: Transforming the Built Environment

The dictates to the built environment are growing and getting complex due to urban climate changes; and so are most of our techniques in designs, construction and maintenance. Therefore this current issue of the Construction Research Journal examines urgent and interconnected challenges facing the industry; from construction safety and technological innovations to the upsurge effects of climate change and the long-term sustainable housing wealth.

Health and safety remains crucial in construction; yet, workers' behavioural patterns on-site continue to challenge prescribed procedures. This situation necessitates an inquiry into how and why these behaviours persist, to develop effective interventions. Therefore, in this issue, behavioural science meets practical site management, which goes beyond health and safety compliance. Besides, we explored frontiers in technologies that foster construction health and safety, as innovations such as the use of drones, wearable sensors and robots are redefining possibilities on construction sites, and their adoption becomes a challenge; hence, the need to ensure that these tools are available, operational and integrated in everyday practice.

A turn in our focus to construction materials improvement due to rising pressures to reduce carbon footprints and increase durability, Alterations such as green concepts, incorporating admixtures into concrete to optimize performance are gaining ground. These innovations not only assure eco-friendly outcomes but also improve a project's overall performance.

Similarly, setting the background on climate change, the built environment contends with increasing environmental issues such as flooding. Recent research included in this issue investigates how flooding influences real estate value, highlighting the need for climate-resilient decision-making in design, construction and maintenance.

Finally, maintenance for mass housing remains a critical concern, particularly as many housing estates are structurally deficient thereby facing social neglect. Sustainable and flexible maintenance strategies are no longer optional—they are essential to improving the quality of life and long term capital growth.

The papers collected here replicate an industry-shift—one that is embracing innovation while dealing with hard realities. Evidenced by a developing agreement, the built environment must emerge, not just for productivity or aesthetics, but for the welfare of all who live, work and build within it.



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